

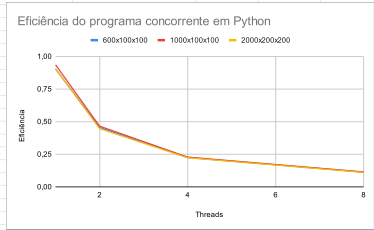
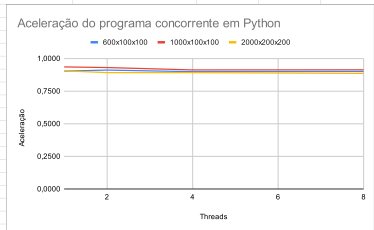
PYTHON			
SEQUENCIAL			
Execução Nº \ Dimensão	600x100x100	1000x100x100	2000x200x200
1	20.9638	36.8824	279.2122
2	22.4078	35.1203	280.0156
3	20.7151	36.5906	278.8884
4	20.4835	34.5550	278.8308
5	21.1098	35.6099	278.6448
6	19.7467	37.7977	279.9489
7	20.9963	34.9108	279.2529
8	20.8843	33.9811	279.9805
9	19.8539	34.2222	278.5006
10	21.0104	34.7633	278.8510
MÉDIA	20.8232	35.3432	279.1104

CONCORRENTE			
1 THREAD			
Execução Nº \ Dimensão	600x100x100	1000x100x100	2000x200x200
1	23.3019	41.3311	305.7218
2	23.0415	37.7155	307.2225
3	21.8485	37.5043	307.8320
4	23.0088	37.4701	307.8459
5	22.8215	37.5877	308.6108
6	22.9408	37.4608	307.8079
7	22.9487	37.2864	311.2868
8	25.7825	37.5304	309.5804
9	22.0537	38.4237	307.8740
10	22.8119	37.4766	308.3174
MÉDIA	23.0540	37.7806	308.3110

4 THREADS			
Execução Nº \ Dimensão	600x100x100	1000x100x100	2000x200x200
1	23.2696	38.8051	312.4994
2	23.8671	38.6534	313.9546
3	23.6267	38.9328	313.4985
4	23.1830	38.8583	313.5197
5	23.1228	39.6570	314.0172
6	23.0068	38.7196	312.5980
7	23.0646	38.4711	313.2357
8	23.1905	38.5511	311.7052
9	23.2922	38.2549	311.8780
10	23.2409	38.5012	313.5498
MÉDIA	23.1654	38.7405	313.0456

ACELERAÇÃO A(n,l)			
THREADS (l)	DIMENSÃO (n)		
	600x100x100	1000x100x100	2000x200x200
1	0.9032	0.9055	0.9053
2	0.9111	0.9304	0.8916
4	0.8989	0.9123	0.8916
8	0.9006	0.9132	0.8855

EFICIÊNCIA E(p,l)			
THREADS (l)	DIMENSÃO (n)		
	600x100x100	1000x100x100	2000x200x200
1	0.9032	0.9055	0.9053
2	0.4556	0.4652	0.4458
4	0.2247	0.2281	0.2229
8	0.1126	0.1141	0.1107



C			
SEQUENCIAL SEM OTIMIZAÇÃO			
Execução Nº \ Dimensão	600x100x100	1000x100x100	2000x200x200
1	0.1650	0.2810	2.0150
2	0.1580	0.2720	2.2540
3	0.1620	0.3570	2.0790
4	0.1690	0.2770	2.0660
5	0.1650	0.2550	2.2430
6	0.1670	0.2830	2.0680
7	0.1670	0.2680	2.0690
8	0.1590	0.3230	2.0540
9	0.1550	0.2520	2.0800
10	0.1600	0.3070	2.0280
MÉDIA	0.1627	0.2875	2.0757

* Erro ao alocar espaço para matriz

CONCORRENTE SEM OTIMIZAÇÃO			
1 THREAD			
Execução Nº \ Dimensão	600x100x100	1000x100x100	2000x200x200
1	0.1990	0.3510	2.6130
2	0.2040	0.3140	2.6340
3	0.2000	0.3190	2.6520
4	0.2110	0.3140	2.5880
5	0.2180	0.3170	2.5790
6	0.2480	0.3150	2.5640
7	0.2140	0.3210	2.5750
8	0.2140	0.3620	2.6170
9	0.2480	0.3170	2.5650
10	0.2110	0.3680	2.7500
MÉDIA	0.2167	0.3298	2.6165

4 THREADS			
Execução Nº \ Dimensão	600x100x100	1000x100x100	2000x200x200
1	0.0810	0.1200	1.0850
2	0.0630	0.1150	1.0470
3	0.0620	0.1160	1.1700
4	0.0860	0.0990	0.9380
5	0.0710	0.1050	0.8410
6	0.0680	0.0990	0.7580
7	0.0650	0.1010	0.8530

SEQUENCIAL COM OTIMIZAÇÃO			
Execução Nº \ Dimensão	600x100x100	1000x100x100	2000x200x200
1	0.1590	0.2600	2.2170
2	0.1550	0.2490	2.3410
3	0.1580	0.2560	2.2090
4	0.1540	0.2490	2.0440
5	0.1460	0.2460	2.1170
6	0.1530	0.2600	2.0590
7	0.1490	0.3040	2.0700
8	0.1480	0.2490	2.0660
9	0.1490	0.2640	2.0510
10	0.1480	0.3240	2.0600
MÉDIA	0.1522	0.2681	2.1231

CONCORRENTE COM OTIMIZAÇÃO			
1 THREAD			
Execução Nº \ Dimensão	600x100x100	1000x100x100	2000x200x200
1	0.1910	0.3340	2.6300
2	0.1880	0.3480	2.6160
3	0.2340	0.3560	2.5720
4	0.2100	0.3220	2.6020
5	0.2130	0.3230	2.5920
6	0.2150	0.3220	2.5780
7	0.1910	0.3260	2.6200
8	0.1930	0.3360	2.5890
9	0.1960	0.3810	2.6070
10	0.1900	0.4070	2.5980
MÉDIA	0.2014	0.3455	2.6008

2 THREADS			
Execução Nº \ Dimensão	600x100x100	1000x100x100	2000x200x200
1	0.1590	0.1680	1.4460
2	0.1120	0.1690	1.4380
3	0.1110	0.1700	1.4400
4	0.1080	0.3020	1.4000
5	0.1060	0.2180	1.4160
6	0.1020	0.1640	1.4740
7	0.0980	0.2410	1.4260
8	0.1000	0.1880	1.4380
9	0.1040	0.1690	1.5120
10	0.1060	0.1930	1.3730
MÉDIA	0.1107	0.1952	1.4363

4 THREADS			
Execução Nº \ Dimensão	600x100x100	1000x100x100	2000x200x200
1	0.0800	0.1080	0.7440
2	0.0580	0.1450	0.7960
3	0.0580	0.2080	0.7410
4	0.0590	0.1020	0.7490
5	0.0640	0.0980	0.7890
6	0.0560	0.1200	0.7240
7	0.0610	0.1040	0.8730

8	0,0680	0,0940	0,7960	ERRO*
9	0,1210	0,0980	0,7880	ERRO*
10	0,0990	0,0970	0,7430	ERRO*
MÉDIA	0,0714	0,1044	0,8989	ERRO*

8	0,0900	0,1300	0,8120	ERRO*
9	0,0920	0,1290	0,9630	ERRO*
10	0,0930	0,1290	0,8590	ERRO*
MÉDIA	0,0891	0,1304	0,9487	ERRO*

8	0,0600	0,0960	0,9760	24,3970
9	0,0570	0,1050	0,7420	25,9830
10	0,0570	0,0950	0,7860	38,0360
MÉDIA	0,0590	0,1179	0,7922	29,0559

8	0,0790	0,1270	0,8180	29,4010
9	0,0780	0,1290	0,8570	28,9990
10	0,0790	0,1450	0,7930	33,0780
MÉDIA	0,0788	0,1400	0,8189	33,0780

ACELERAÇÃO A(n,t)

THREADS (t)	DIMENSÃO (n)		
	600x100x100	1000x100x100	2000x200x200
1	0,7508	0,8717	0,7933
2	1,3684	1,4469	1,5002
4	2,2787	2,7538	2,3092
8	1,8260	2,2048	2,1879

EFICIÊNCIA E(n,t)

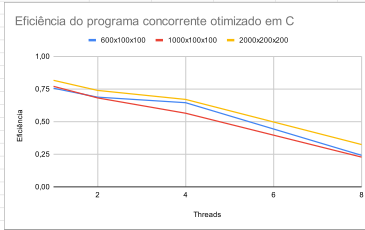
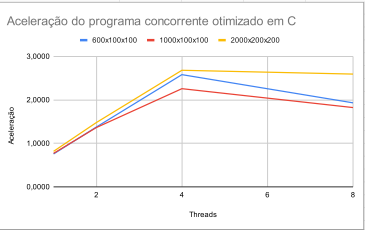
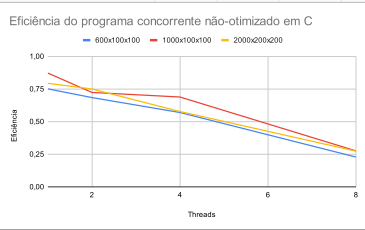
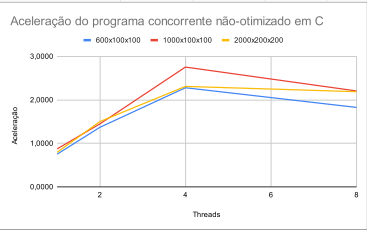
THREADS (t)	DIMENSÃO (n)		
	600x100x100	1000x100x100	2000x200x200
1	0,7508	0,8717	0,7933
2	0,8942	0,7235	0,7501
4	0,5697	0,6985	0,5773
8	0,2283	0,2756	0,2735

ACELERAÇÃO A(n,t)

THREADS (t)	DIMENSÃO (n)		
	600x100x100	1000x100x100	2000x200x200
1	0,7557	0,7702	0,8163
2	1,3749	1,3032	1,4762
4	2,5797	2,2570	2,6900
8	1,9315	1,8226	2,9526

EFICIÊNCIA E(n,t)

THREADS (t)	DIMENSÃO (n)		
	600x100x100	1000x100x100	2000x200x200
1	0,7557	0,7702	0,8163
2	0,8674	0,6816	0,7391
4	0,6449	0,5942	0,6700
8	0,2414	0,2278	0,3241



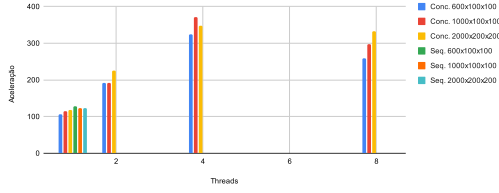
GANHO DE C (não otimizado) EM RELAÇÃO A PYTHON

GANHO DE C (otimizado) EM RELAÇÃO A PYTHON

ACELERAÇÃO A(n,t)

CONCORRENTE \ SEQUENCIAL	DIMENSÃO (n)		
	600x100x100	1000x100x100	2000x200x200
127.8652	122.9329	122.9329	
THREADS (t)			
1	106,3867	114,5561	117,8334
2	192,2111	191,1691	226,2509
4	324,4454	371,0776	348,2541
8	259,4916	296,8152	332,2493

Aceleração do programa não-otimizado em C



ACELERAÇÃO A(n,t)

CONCORRENTE \ SEQUENCIAL	DIMENSÃO (n)		
	600x100x100	1000x100x100	2000x200x200
136,8147	132,8162	131,4636	
THREADS (t)			
1	114,4687	109,3505	118,5447
2	206,4490	194,5968	217,9495
4	362,6339	328,5878	395,1598
8	293,4099	265,1007	384,9126

Aceleração do programa otimizado em C

